

ABSTRACT OF THE DISCLOSURE

The present invention discloses a packet transmission device and a packet transmission system which can realize high-capacity communication. The
5 transmission device transmits packets over a wavelength division multiplexing (WDM) link by mapping the packets into an optical path signal directly without any other medium such as an SDH
10 path. The present invention also discloses a packet transmission device and a packet transmission system which can realize high-capacity communication over an SDH transmission link by mapping the packets directly into an SDH section payload without adding
15 any VC path overhead in order to use the entire SDH section payload area.